FGD4 Safe Area Gas Detector

For Detection of Oxygen and Toxic Gases

- Compact and lightweight
- Plug-in replaceable gas sensors
- Wide power supply range of 8 to 24 volts dc
- Industry standard 4 to 20 mA output
- · Optional weatherguard

Description

The FGD4 series operates on 8–24 V DC with a 4–20 mA 2-wire output for connection to a control panel. The $\rm CO_2$ version uses infrared sensing and requires an additional power connection (3-wire). Optional weather guards are available.

Calibration is simple via internal ZERO/SPAN buttons or with the plug-in handheld configuration unit.

Specifications

Material	Bayblend (ABS and Polycarbonate blending)	
Cable entries	1 x 20mm or ½" NPT	
Dimensions	122 x 122 x 75 mm	
Weights	FGD4 (excluding weatherguard) – 500grams Weatherguard – 225 grams	
Gas types	Oxygen or toxic	
Input voltage	8 to 24 volts dc	
Input power	5 Watts maximum	
Internal fuse	1 Amp antisurge 'Nanofuse'	
Analogue output	4 to 20mA (10 bit resolution)	
Sensor Type	Electrochemical or NDIR Infrared	
Measurement range	Dependant upon sensor type	
Response time	Sensor response times vary according to the sensor type	
Measurement resolution	Dependent upon sensor type	
IP rating	Enclosure IP66, Sensor IP65	
Operating temperature	Varies with sensor type, typically - 20 to +50°C	
Recommended Storage temperature	+10 to +20°C	
Humidity range	Oxygen - 0 to 95% RH non-condensing Toxic - 15 to 90% RH non-condensing typically Infrared - 0 to 95% RH non-condensing	
Operating pressure	Atmospheric + or - 10%	





Standard gas types & sensor ranges available			
Gas Type	Sensor Tech	Ranges Available	
Ammonia	Electrochemical	0-100ppm	
Ammonia	Liechochemical	0-1000ppm	
		0-500ppm	
		0-1000ppm	
		0-2000ppm	
Carbon	Infrared	0-5000ppm	
Dioxide	IIIIIuleu	0-10000ppm	
		0-2%	
		0-5%	
		0-100%	
Carbon	Electrochemical	0-50ppm	
Monoxide		0-100ppm	
Fiorioxide		0-500ppm	
Chlorine	Electrochemical	0-20ppm	
Carbon Monoxide	Electrochemical	0-1000ppm	
Hydrogen	Electrochemical	0-30ppm	
Cyanide			
Hydrogen	Electrochemical	0-50ppm	
Sulphide		0-100ppm	
Colpinac		0-200ppm	
Hydrogen	Electrochemical	0-1000ppm	
Nitrogen	Electrochemical	0-20ppm	
Dioxide	Licendenemical	0 20ppiii	
Nitric Oxide	Electrochemical	0-100ppm	
Oxygen	Electrochemical	0-21%	
		0-25%	
Sulphur	Electrochemical	0-20ppm	
Dioxide	Lieunochemicui		
voc	Electrochemical	0-20ppm	

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Accessories

Optional Configuration Unit

The FGD4 can be calibrated via a purpose designed keypad. The keypad allows the user to view the current gas level, calibrate the sensor with the ability to change the span level and calibrate the 4 to 20 mA loop.



Weather Guard

An optional weather guard is available for installations exposed to the atmosphere or contaminants and reduces the possibility of water or other contaminants entering into the gas sensor thereby improving the overall reliability of the gas detector in harsh environments.



Warning

These gas detectors must only be used in applications where there is no risk of potentially explosive gases being present or of them being created through industrial processes or other activities within the area concerned.









